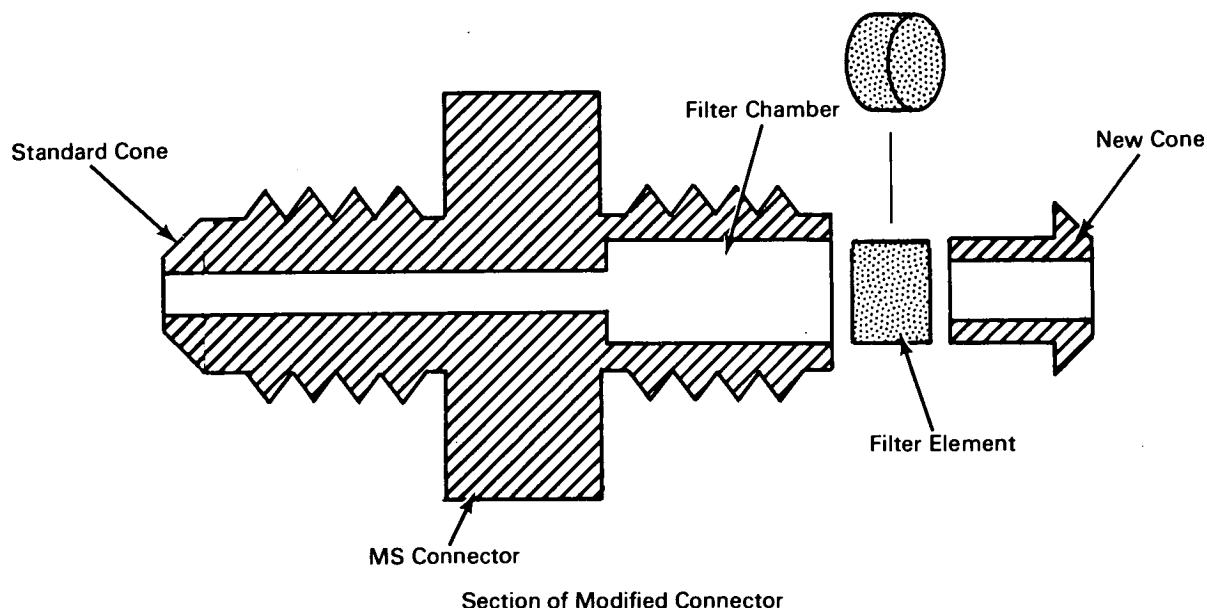


NASA TECH BRIEF



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Replaceable Filters and Cones for Flared-Tubing Connectors



Standard connectors (types AN and MS) for flared tubing can be modified for incorporation of in-line filters and replaceable cones for seating of the flares. For example, the cone is machined from one end of an MS connector (see fig.) before the fitting is bored to accommodate a metallic-filament type of slip-in filter. A new cone is machined from a heat-treatable stainless steel; its shank slips into the enlarged bore, behind the filter which it holds in place. Thus, when the surface of a cone is damaged, the cone only need be replaced without replacement of the complete connector.

Tests have disclosed no leakage past the metal-to-metal contacts around the replaceable cone.

Note:

No additional documentation is available. Specific questions, however, may be directed to:

Technology Utilization Officer
Manned Spacecraft Center, Code BM7
Houston, Texas 77058
Reference: B70-10548

Patent status:

No patent action is contemplated by NASA.

Source: Benjamin T. Howland and Leo E. Grant of
North American Rockwell Corp.
under contract to
Manned Spacecraft Center
(MSC-15750)

Category 07